

In the Claims:

Please cancel claims 5, 6, 10, 15, 16 and 20, add claims 29 and 30 and amend claims 1-4, 8, 9, 11-14, 17-19, 21-28, all as shown below. All pending claims are reproduced below, including those that remain unchanged.

1. (Currently Amended): An ion generator comprising:

a first electrode;

a second electrode;

a voltage generator electrically coupled to the first electrode and the second electrode in order, when energized, to create a flow of air in a downstream direction from the first electrode to the second electrode; and

wherein said second electrode includes is comprised of two or more surfaces defining a channel for the flow of air in the downstream direction that are at an angle to each other; and  
wherein at least two of the surfaces meet at an oblique angle.

2. (Currently Amended): The An ion generator of claim 1 comprising:

at least one first electrode;

a plurality of second electrodes;

a voltage generator electrically coupled to the at least one first electrode and the plurality of second electrodes in order, when energized, to create a flow of air in a downstream direction from the at least one first electrode to the plurality of second electrodes;

wherein said plurality of second electrodes are nested to form a channel for the flow of air in the downstream direction; and

wherein each of said plurality of second electrodes is Z-shaped includes at least one bend, the at least one bend being coordinated to support nesting.

3. (Currently Amended): The An ion generator of claim 1 comprising:

a first electrode;

a second electrode;

a voltage generator electrically coupled to the first electrode and the second electrode in order, when energized, to create a flow of air in a downstream direction from the first electrode to the second electrode;

wherein said second electrode is comprised of two or more surfaces that are at an angle to each other; and

wherein relative to the direction of the flow of air, said second electrode has a tail section that is substantially wider than a nose section.

4. (Currently Amended) The An ion generator of claim 1 comprising:

a first electrode;

a second electrode;

a voltage generator electrically coupled to the first electrode and the second electrode in order, when energized, to create a flow of air in a downstream direction from the first electrode to the second electrode;

wherein said second electrode is comprised of two or more surfaces that are at an angle to each other; and

wherein relative to the direction of the flow of air, said second electrode has a downstream tail section that is substantially wider than an upstream nose section.

5. (Cancel)

6. (Cancel)

7. (Original): The ion generator of claim 1 wherein said second electrode is hollow.

8. (Currently Amended): The ion generator of claim 1 wherein the nose section and the tail section  
~~said two or more surfaces~~ are each substantially planar.

9. (Currently Amended): An ion generator comprising:

a first electrode;

a second electrode;

a voltage generator electrically coupled to the first electrode and the second electrode in order, when energized, to create a flow of air in a downstream direction from the first electrode to the second electrode; and

wherein said second electrode has a tail section ~~that is~~ and a nose section, the tail section being  
substantially wider relative to the direction of the flow of air than the a nose section and with the tail section  
located downstream from the nose section.

10. (Cancel)

11. (Currently Amended): A device for conditioning air comprising:

a housing with an air inlet and an air outlet;

a first electrode;  
a second electrode including a nose and a tail;  
said first electrode located closer to said air inlet than said second electrode;  
said second electrode located closer to said air outlet than said first electrode; and  
a potential generator electrically coupled to the first electrode and the second electrode in order, when  
energized, to create a flow of air in a downstream direction from the first electrode to the second electrode;

and

wherein said second electrode includes is comprised of two or more surfaces defining a channel for  
the flow of air in the downstream direction that are at an angle to each other; and  
wherein at least two of the surfaces meet at an oblique angle.

12. (Currently Amended): The ion generator of claim 11 A device for conditioning air comprising:  
a housing with an air inlet and an air outlet;  
at least one first electrode;  
a plurality of second electrodes;  
said at least one first electrode located closer to said air inlet than said plurality of second electrodes;  
said plurality of second electrodes located closer to said air outlet than said at least one first electrode;  
a potential generator electrically coupled to the at least one first electrode and the plurality of second  
electrodes in order, when energized, to create a flow of air in a downstream direction from the at least one  
first electrode to the plurality of second electrodes;  
wherein said plurality of second electrodes are nested to form a channel for the flow of air in the  
downstream direction; and

wherein each of said plurality of second electrodes is Z-shaped includes at least one bend, the at least one bend being coordinated to support nesting.

13. (Currently Amended): The ion generator of claim 11 A device for conditioning air comprising:  
a housing with an air inlet and an air outlet;  
a first electrode;  
a second electrode;  
said first electrode located closer to said air inlet than said second electrode;  
said second electrode located closer to said air outlet than said first electrode; and  
a potential generator electrically coupled to the first electrode and the second electrode in order, when energized, to create a flow of air in a downstream direction from the first electrode to the second electrode;  
wherein said second electrode is comprised of two or more surfaces that are at an angle to each other; and  
wherein relative to the direction of the flow of air, said second electrode has a tail section that is substantially wider than a nose section.

14. (Currently Amended): The ion generator of claim 11 A device for conditioning air comprising:  
a housing with an air inlet and an air outlet;  
a first electrode;  
a second electrode;  
said first electrode located closer to said air inlet than said second electrode;  
said second electrode located closer to said air outlet than said first electrode; and

a potential generator electrically coupled to the first electrode and the second electrode in order, when energized, to create a flow of air in a downstream direction from the first electrode to the second electrode;  
wherein said second electrode is comprised of two or more surfaces that are at an angle to each other; and

wherein said second electrode has a downstream tail section that is wider than an upstream nose section.

15. (Cancel)

16. (Cancel)

17. (Currently Amended) The ~~ion generator~~ device of claim 11 wherein said second electrode is hollow.

18. (Currently Amended): The ion generator of claim 11 wherein the nose and the tail ~~said two or more surfaces~~ are each substantially planar.

19. (Currently Amended): A device for conditioning air comprising:

a housing with an air inlet and an air outlet;

a first electrode;

a second electrode;

said first electrode located closer to said air inlet than said second electrode;

said second electrode located closer to said air outlet than said first electrode;

a potential generator electrically coupled to the first electrode and the second electrode in order, when energized, to create a flow of air in a downstream direction from the first electrode to the second electrode; and

wherein said second electrode has a tail section that is and a nose section, the tail section being substantially wider relative to the direction of the flow of air than the a nose section and with the tail section located downstream from the nose section.

20. (Cancel)

21. (Currently Amended): The ion generator of claim 1 An ion generator comprising:  
a first electrode;  
a second electrode; and  
a voltage generator electrically coupled to the first electrode and the second electrode in order, when energized, to create a flow of air in a downstream direction from the first electrode to the second electrode;  
wherein said second electrode is teardrop-shaped with a small rounded end nose and a large bulbous end tail and with the pointed end located closer to said first electrode tail located downstream from the nose.

22. (Currently Amended): The ion generator of claim 1 An ion generator comprising:  
a first electrode;  
a second electrode having a V-shaped tail with a rounded nose;  
a voltage generator electrically coupled to the first electrode and the second electrode in order, when energized, to create a flow of air in a downstream direction from the first electrode to the second electrode;  
and

wherein said rounded nose of said second electrode is located upstream from said V-shaped tail with a rounded end and with the rounded end of the V-shape located closer to said first electrode.

23. (Currently Amended): The ion generator of claim 9 An ion generator comprising:  
a first electrode;  
a second electrode;  
a voltage generator electrically coupled to the first electrode and the second electrode in order, when energized, to create a flow of air in a downstream direction from the first electrode to the second electrode;  
and

wherein said second electrode is teardrop-shaped with a ~~small rounded end~~ nose and a ~~large~~ bulbous end ~~tail~~ and with the bulbous tail located downstream from said rounded nose and with the ~~small rounded end~~ located closer to said first electrode.

24. (Currently Amended): The ion generator of claim 9 An ion generator comprising:  
a first electrode;  
a second electrode;  
a voltage generator electrically coupled to the first electrode and the second electrode in order, when energized, to create a flow of air in a downstream direction from the first electrode to the second electrode;  
and

wherein said second electrode is V-shaped with a rounded end, and with the rounded end of the V-shape located closer to said first electrode.

25. (Currently Amended): The ion generator of claim 11 A device for conditioning air comprising:

a housing with an air inlet and an air outlet;  
a first electrode;  
a second electrode;  
said first electrode located closer to said air inlet than said second electrode;  
said second electrode located closer to said air outlet than said first electrode; and  
a potential generator electrically coupled to the first electrode and the second electrode in order, when  
energized, to create a flow of air in a downstream direction from the first electrode to the second electrode;  
wherein said second electrode is teardrop-shaped with a ~~small~~ rounded end nose and a ~~large~~ bulbous ~~end~~ ~~tail~~ and with the bulbous tail located downstream from said rounded nose ~~and with the pointed end located~~ ~~closer to said first electrode.~~

26. (Currently Amended): The ion generator of claim 11 A device for conditioning air comprising:  
a housing with an air inlet and an air outlet;  
a first electrode;  
a second electrode having a V-shaped tail with a rounded nose;  
said first electrode located closer to said air inlet than said second electrode;  
said second electrode located closer to said air outlet than said first electrode; and  
a potential generator electrically coupled to the first electrode and the second electrode in order, when  
energized, to create a flow of air in a downstream direction from the first electrode to the second electrode;  
wherein said rounded nose of said second electrode is located upstream from said V-shaped tail with ~~and with the rounded end of the V-shape located closer to said first electrode.~~

27. (Currently Amended): The ion generator of claim 19 A device for conditioning air comprising:

a housing with an air inlet and an air outlet;  
a first electrode;  
a second electrode;  
said first electrode located closer to said air inlet than said second electrode;  
said second electrode located closer to said air outlet than said first electrode;  
a potential generator electrically coupled to the first electrode and the second electrode in order, when  
energized, to create a flow of air in a downstream direction from the first electrode to the second electrode;  
and

wherein said second electrode is teardrop-shaped with a ~~small rounded end~~ nose and a ~~large~~ bulbous ~~tail~~ and with the bulbous tail located downstream from said rounded nose ~~and with the small rounded end~~ located closer to said first electrode.

28. (Currently Amended): ~~The ion generator of claim 19~~ A device for conditioning air comprising:  
a housing with an air inlet and an air outlet;  
a first electrode;  
a second electrode;  
said first electrode located closer to said air inlet than said second electrode;  
said second electrode located closer to said air outlet than said first electrode;  
a potential generator electrically coupled to the first electrode and the second electrode in order, when  
energized, to create a flow of air in a downstream direction from the first electrode to the second electrode;  
wherein said second electrode ~~is has a~~ V-shaped tail with a rounded ~~nose end~~ nose ~~and with the rounded end of the V-shape located closer to said first electrode;~~ and  
wherein said rounded nose of said second electrode is located upstream from said V-shaped tail.

29. (New): The ion generator of claim 2 wherein each of said plurality of second electrodes is Z-shaped.

30. (New): The ion generator of claim 12 wherein each of said plurality of second electrodes is Z-shaped.